PATENT COOPERATION TREATY

· -	IONAL SEARC	HING AUTH	ORITY					
To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
					(PCT Rule 43bis.1)			
				Date of mailing				
Applicant's	s or agent's file re	eference		(day/month/year) Z & VIAY 7007				
Applicant's or agent's file reference 29688				FOR FURTHER ACTION See paragraph 2 below				
Internation	al application No).	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/IL05/			01 June 2005 (01.06.200	05)	01 June 2004 (01.06.2004)			
Internation	al Patent Classifi	cation (IPC) o	r both national classificat	ion and IPC	1 01 Julie 2004 (01.00.2004)			
	506K 9/00(2006							
USPC: P Applicant	lease See Contin	uation Sheet						
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l. This of	pinion contains in	idications rela	ting to the following items	S:				
\boxtimes	Box No. I	Basis of the	opinion					
	Box No. II	Priority			,			
	Box No. III	Non-establis	hment of opinion with rea	vard to novelty inv	ventive step and industrial and industrial			
$\overline{\boxtimes}$	Box No. IV	Lack of unity of invention						
$\overline{\boxtimes}$	Box No. V							
	Box No. VI	Certain docu	ments cited		•			
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
2. FURT	HER ACTION	1						
If a der Internat Authori	nand for international Preliminar ty other than this	tional preliming Examining one to be the	Authority ("IPEA") exc	ept that this doe: PEA has notified t	l be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1 bis(b) lered.			
of Form	witten tehly fol	before the ex	appropriate, with amendming piration of 22 months from	ients, before the ex	PEA, the applicant is invited to submit to the expiration of 3 months from the date of mailing whichever expires later.			
	her details, see no							
Name and m	nailing address of	the ISA/ US	Date of completic	on of this opinion	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			•	Anand Bhatnagar				
P.O. Box 1450		15 April 2007 (1:	ɔ.∪4. <i>2</i> ∪U/)	Odimio Bilatinage				
	xandria, Virginia 2 5. (571) 273-3201				Telephone No. 571-272-7416			
	V237 (cover shee	_)					

International application No.
PCT/IL05/00575

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
Light subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
rm PCT/ISA/237(Box No. I) (April 2005)

International application No.

PCT/IL05/00575

In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees	Box No	o. IV Lack of unity of invention
	2.	paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons:
Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-7, 31, 33-41, 45, 50, 57, 62, 111, and 116 (Species I, V. and VII).		in parts.

International application No. PCT/IL05/00575

applicability; citations and exp. . Statement			
Novelty (N)	Claima 1 7 31 47 70		
	Claims 1-7. 31. 45. 50. 57	, 62, 111, 116	Y
	Claims NONE		N
Inventive step (IS)	Claims 40		
	Claims 33-39 and 41		Y
			N
Industrial applicability (IA)	Claims 1-7. 31. 33-41. 45,	50, 57, 62, 111, and 116	Y
	Claims NONE		N
Citations and explanations:			
ease See Continuation Sheet			
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International application No. PCT/IL05/00575

Supplemental Box	
In case the space in any of the preceding boxes is not sufficient	t.

Continuation of USPC: 382/128;128/922;250/580,582,583,584,586,590,591,339.06,339.06,341.1.341.2,345,370.09,370.08,393,392;600/11,436,459,462;378/1.2,

V. 2. Citations and Explanations:

Claims 1-7 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 1, 6, and 7 "determining a probability that a photon emitted at a voxel, centered at an x;y;z position, in a volume, relative to said radioactive-emission-measuring probe, will be detected by said detecting unit, at a given view, " that in combination with the other respective claim limitations.

Claims 31, 45, 50, 57, 62, 111, and 116 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 31 and similarly claims 45,50,57,62,111, and 116, "obtaining a second collection of views of the modeled suspected pathology within the modeled body-structure and the modeled anatomical constraints, providing a second scoring function, forming sets of views from the second collection of views and scoring them, with the second scoring function," that, in combination with the other claim limitations.

Claims* 33-41 lack novelty under PCT Article 33(2) as being anticipated by Rogers et al. (U.S. patent 6,346,706 B1). Regarding claims 33 and 41:A radioactive-emission-measuring-probe system comprisisng (fig. 2 elements 28,32, and 34, col. 1 lines 15-20. and col. 10 lines 23-44, wherein the gantry and camera detectors are read as the probe system since they are probing/imaging the

at least one detecting unit, located within the housing and adapted for at least one form of motion with respect to the housing (fig. 2 elements 28, 32 and 34, and col. 13 lines 1-25, wherein elements 32 and 34 are part of the housings along with the gantry, element 28, that contain the camera detectors that detect the photons that are emitted. The gantry rotates to take an image in different

at least one motion provider, in mechanical communication with the at least one detecting unit, for providing it with the at least one form of motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.);

a controller, in signal communication with the at least one motion provider, for instructing it regarding said at least one form of motion of the at least one detecting unit, thus automatically providing said at least one detecting unit with said at least one form of motion motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.)

Form PCT/ISA/237 (Supplemental Box) (April 2005)

International application No. PCT/IL05/00575

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 34: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of detecting units, each detecting unit moving independently (col. 17 line 62 to col. 18 line 12).

Regarding claim 35: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of assemblies of detecting units, each assembly moving a single body, and each assembly moving independently (col. 17 line 62 to col. 18 line 12, wherein each detector is composed of three detectors).

Regarding claim 36: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of lines of detecting units, each line moving as a single body, and each line moving independently (fig. 5 elements 152-154c and col. 17 line 62 to col. 18 line 12, wherein the detectors are in lines).

Regarding claim 37: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of to col. 18 line 12, wherein the detectors are in lines).

Regarding claim 38: The radioactive-emission-measuring-probe system wherein the at least one form of motion with respect to the housing includes at least two forms of motion with respect to the housing (fig. 2 elements 28, 32, 34, and 60, wherein the gantry rotates, i.e. a first motion, and the table moves perpendicular to the gantry, i.e. a second motion).

Regarding claim 39: The radioactive-emission-measuring-probe system wherein the at least one motion provider includes at least two motion providers (see claim 38).